Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (withdrawn) A method of making a reinforcing member adapted and configured for use in a medical device, the method comprising:

providing one or more structural elements adapted and configured for creating the reinforcing member, the one or more structural elements including a surface having a portion with an initial surface area;

treating at least the portion of the surface of the one or more structural elements to provide a final surface area that is greater than the initial surface area; and

creating the reinforcing member using the one or more structural elements.

- 2. (withdrawn) The method of claim 1, wherein the treating of the portion of the surface of the one or more structural elements occurs prior to the creating of the reinforcing member.
- 3. (withdrawn) The method of claim 1, wherein the creating of the reinforcing member occurs prior to the treating of the portion of the surface of the one or more structural elements.
- 4. (withdrawn) The method of claim 1, wherein the portion of the surface of the one or more structural elements has an initial surface texture, and wherein the treating step includes treating the portion of the surface of the one or more structural elements to provide a surface texture that is rougher than the initial surface texture.
 - 5. (withdrawn) The method of claim 1, wherein the medical device is a catheter.

- 6. (withdrawn) The method of claim 5, wherein the catheter is an intravascular catheter.
- 7. (withdrawn) The method of claim 1, wherein the reinforcing member comprises a reinforcing braid.
- 8. (withdrawn) The method of claim 7, wherein the one or more structural elements comprise one or more filaments of the braid.
- 9. (withdrawn) The method of claim 8, wherein the treating step includes treating at least a portion of a surface of the one or more filaments.
- 10. (withdrawn) The method of claim 8, wherein the creating step includes creating the braid using the one or more filaments.
- 11. (withdrawn) The method of claim 8, wherein the one or more filaments of the braid comprising one or more metallic filaments, polymeric filaments, or both metallic filaments and polymeric filaments.
- 12. (withdrawn) The method of claim 1, wherein the reinforcing member comprises a metallic material.
- 13. (withdrawn) The method of claim 12, wherein the metallic material comprises stainless steel, platinum, tungsten, nickel, titanium, gold, iridium, or an alloy or a combination thereof.
- 14. (withdrawn) The method of claim 12, wherein the metallic reinforcing member comprises stainless steel.

- 15. (withdrawn) The method of claim 1, wherein the treating is performed by exposing the one or more structural elements to a chemical etch.
- 16. (withdrawn) The method of claim 15, wherein the chemical etch comprises an acidic chemical etch.
- 17. (withdrawn) The method of claim 16, wherein the acidic chemical etch comprises FeCl₃, HCl, or HF.
- 18. (withdrawn) The method of claim 1, wherein the reinforcing member comprises a polymer.
- 19. (withdrawn) The method of claim 18, wherein the polymer comprises polyester, polyamide, acrylic, or combinations or mixtures thereof.
- 20. (withdrawn) The method of claim 19, wherein the reinforcing member comprises polyamide.
- 21. (withdrawn) The method of claim 1, wherein the treating is performed by mechanical working.
- 22. (withdrawn) The method of claim 1, wherein mechanical working comprises grinding, sanding, sandblasting, particle blasting, or microabrasion treatment.
- 23. (withdrawn) The method of claim 1, wherein other structural elements that have not undergone the treating step are also used in creating the reinforcing structure.
- 24. (withdrawn) The method of claim 1, wherein the one or more structural elements comprise one or more filaments, strands, wires, or combinations thereof that are use in creating the reinforcing structure.

25. (withdrawn) A method of making a reinforcing member adapted and

configured for use in a medical device, the method comprising:

providing one or more structural elements adapted and configured for creating the

reinforcing member, the one or more structural elements including a surface having a portion

with an initial surface texture;

treating at least the portion of the surface of the one or more structural elements to

provide a final surface texture that is rougher than the initial surface texture; and

creating the reinforcing member using the one or more structural elements.

26. (withdrawn) The method of claim 25, wherein the treating of the portion of the

surface of the one or more structural elements occurs prior to the creating of the reinforcing

member.

27. (withdrawn) The method of claim 25, wherein the creating of the reinforcing

member occurs prior to the treating of the portion of the surface of the one or more structural

elements.

28. (withdrawn) A method of modifying at least a portion of the surface of a

reinforcing member adapted and configured for use in a medical device, the method

comprising:

providing the reinforcing member having a surface having an initial surface area;

treating at least a portion of the surface of the reinforcing member to provide a surface

area that is greater than the initial surface area.

29. (withdrawn) A method of making a reinforcing braid adapted and configured

for use in a medical device, the method comprising:

providing one or more metallic filaments adapted and configured to create at least a

portion of the reinforcing braid, the one or more filaments including a surface having a portion

with an initial surface area;

treating at least the portion of the surface of the one or more filaments to provide a final

surface area that is greater than the initial surface area; and

creating the braid using the one or more filaments.

30. (withdrawn) The method of claim 29, wherein the treating of at least the

portion of the surface of the one or more filaments occurs prior to the creating of the braid

using the one or more filaments.

31. (withdrawn) The method of claim 29, wherein the creating of the braid using

the one or more filaments occurs prior of at least the portion of the surface of the one or more

filaments.

32. (withdrawn) A method of creating a medical device including a reinforcing

structure, the method comprising:

providing one or more structural elements adapted and configured to be made into the

reinforcing structure for the medical device, the one or more structural elements including a

surface having a portion with an initial surface area;

treating at least the portion of the surface of the one or more structural elements to

provide a final surface area that is greater than the initial surface area;

creating the reinforcing member using the one or more structural elements; and

incorporating the reinforcing structure into the construction of the medical device.

33. (withdrawn) The method of claim 32, wherein the treating of the portion of the

surface of the one or more structural elements occurs prior to the creating of the reinforcing

structure.

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34. (withdrawn) The method of claim 32, wherein the creating of the reinforcing

structure occurs prior to the treating of the portion of the surface of the one or more structural

elements.

35. (withdrawn) The method of claim 32, wherein the medical device is a catheter.

36. (withdrawn) A method of making a medical device having a reinforcement

member, the method comprising:

providing the reinforcing member;

treating the surface of the reinforcing member to provide a roughened surface; and

incorporating the reinforcing member into the construction of the medical device.

37. (withdrawn) A method of creating a catheter including a braided reinforcing

structure, the method comprising:

providing one or more filaments adapted and configured to be made into the braided

reinforcing structure for the medical device, the one or more filaments including a surface

having an initial surface area;

treating the surface of the one or more filaments to provide a final surface area that is

greater than the initial surface area;

creating the reinforcing braid using the one or more filaments, the braid including an

outer surface, an inner surface, and a lumen extending there through;

connecting a polymer layer to one of the surfaces of the braid.

38. (withdrawn) The method of claim 37, wherein the connecting a polymer layer

to one of the surfaces of the braid includes connecting an inner polymer layer to the inner

surface of the braid.

39. (withdrawn) The method of claim 37, wherein the connecting a polymer layer

to one of the surfaces of the braid includes connecting an outer polymer layer to the outer

surface of the braid.

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40. (withdrawn) The method of claim 37, wherein the connecting a polymer layer to one of the surfaces of the braid includes connecting an inner polymer layer to the inner surface of the braid, and connecting an outer polymer layer to the outer surface of the braid.

41. (previously presented) A medical device including a reinforcing member, the

medical device formed by the following process:

providing one or more metallic filaments adapted and configured to be made into the reinforcing member for the medical device, the one or more metallic filaments including a surface having a portion with an initial surface area;

treating at least the portion of the surface of the one or more metallic filaments to provide a final surface area that is greater than the initial surface area;

creating the reinforcing member using the one or more metallic filaments; and incorporating the reinforcing member into the construction of the medical device.

42. (original) The medical device of claim 41, wherein the medical device is a catheter.

43. (previously presented) The medical device of claim 41, wherein the reinforcing member includes an outer surface, an inner surface, and a lumen extending there through.

- 44. (previously presented) The medical device of claim 43, wherein incorporating the reinforcing member into the construction of the medical device includes connecting an outer layer to the outer surface of the reinforcing member.
- 45. (original) The medical device of claim 44, wherein the outer layer comprises a polymer material.

46. (original) The medical device of claim 43, wherein incorporating the reinforcing

member into the construction of the medical device includes connecting an inner layer to the

inner surface of the reinforcing structure.

47. (original) The medical device of claim 46, wherein the inner layer comprises a

polymer material.

48. (previously presented) A medical device comprising:

a reinforcing member including a metallic filament that includes a surface that includes

a portion that has been treated to provide an increased surface area relative to a surface area of

the portion prior to treatment;

one or more polymer structures connected to the treated portion of the surface of the

metallic filament;

wherein the increased surface area on the portion of the surface of the metallic filament

of the reinforcing member allows for a mechanical bond between the reinforcing member and

the one or more polymer structures.

49. (original) The medical device of claim 48, wherein the medical device is a

catheter.

50. (original) The medical device of claim 48, wherein the reinforcing member

includes an outer surface, an inner surface, and a lumen extending there through.

51. (previously presented) The medical device of claim 50, wherein the one or

more polymer structures comprises an outer polymer layer connected to the outer surface of the

tubular reinforcing member.

52. (previously presented) The medical device of claim 50, wherein the one or more

polymer structures comprises an inner polymer layer connected to the inner surface of the

tubular reinforcing member.

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53. (previously presented) A catheter comprising an elongated tubular body having

a proximal portion, a distal portion, and a lumen extending there through, the tubular body

comprising:

a metallic reinforcing member including a surface, wherein at least a portion of the

surface has been treated to provide an increased surface area relative to a surface area of the

portion prior to treatment;

a member made of a polymer material, the member being connected to the surface;

wherein increased surface area of the reinforcing member allows the polymer material

to create a mechanical bond with the surface.

54. (previously presented) A catheter, comprising:

a braid including a plurality of metallic braid filaments each including a surface,

wherein a portion of the surface of the filaments is chemically etched to provide a roughened

surface; and

a polymer member connected to the braid.

55. (previously presented) The medical device of claim 41, wherein the reinforcing

member includes a braid.

56. (previously presented) The medical device of claim 41, wherein the reinforcing

member includes a coil.

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